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Inventor: Hiroyuki KAWAMURA et al. Customer No.: 000028107

Fig.1

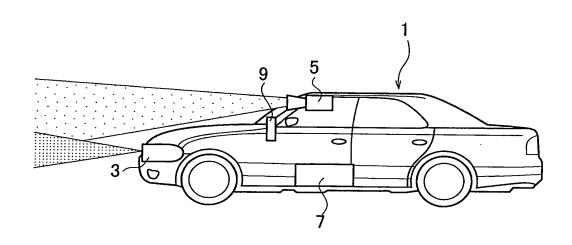
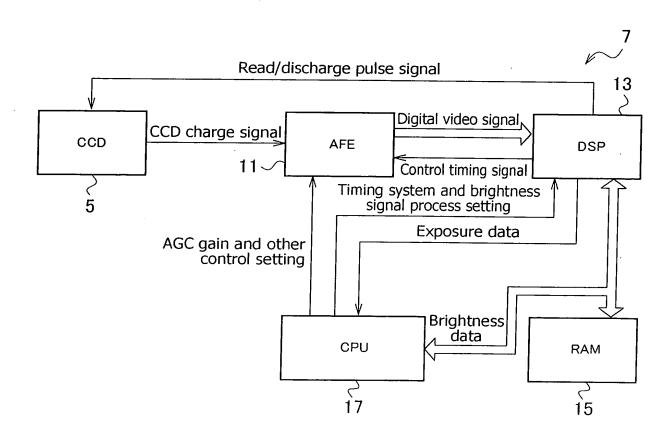


Fig.2

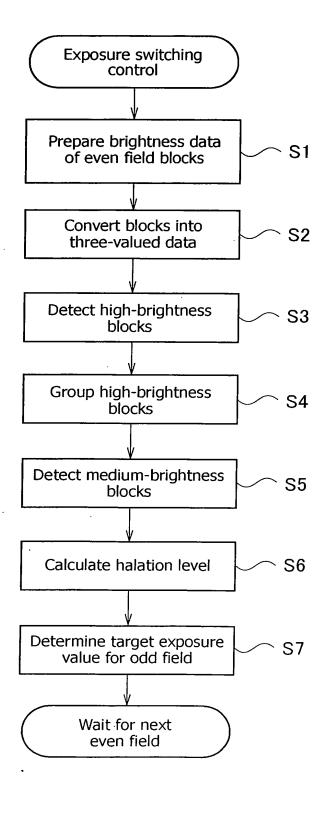


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Fig.3



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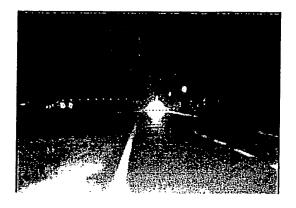


Fig.5

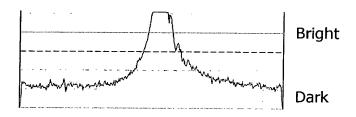


Fig.6

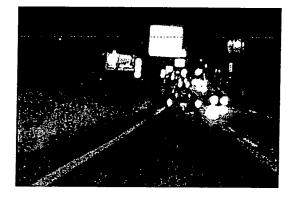
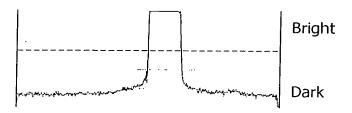


Fig.7



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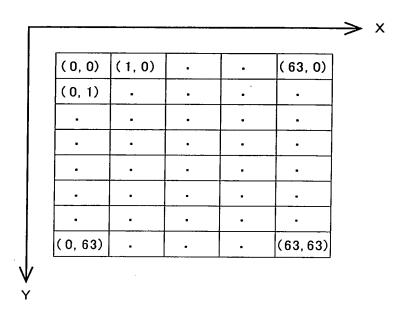


Fig.9

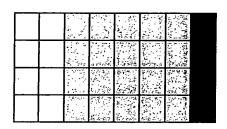
| Ratio of gray | Ratio of white | Ratio of black | Area color | |
|---------------|------------------|----------------|------------|--|
| ≧50% | | _ | Gray | |
| <50% | Ratio of white ≧ | Ratio of black | White | |
| | Ratio of white < | Ratio of black | Black | |

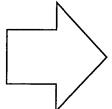
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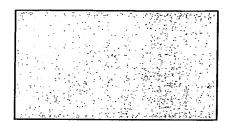
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Fig.10







Determine as gray block

Fig.11

| 2 | 3 | 4 |
|---|-------|---|
| 1 | White | 5 |
| 8 | 7 | 6 |

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Fig.12

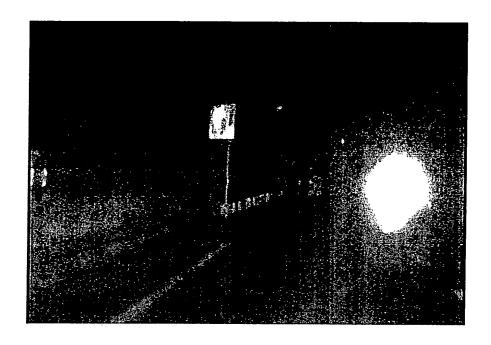
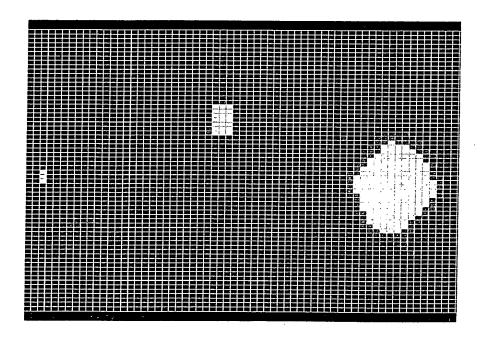


Fig.13



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Fig.14A

| | 2 | 3 |
|---|---|---|
| 4 | | 5 |
| 6 | 7 | 8 |

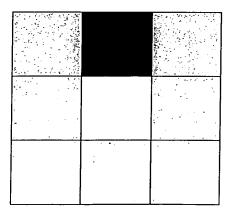
Fig.14B

| 31 1 3 | 2 | 3_ | 4 |
|---------------|---|----|----|
| 5 | | | 6. |
| 7 | 8 | 9 | 10 |

Fig.14C

| | 2 | 3 | 4 |
|---|----|---|----|
| 5 | | | 6. |
| 7 | 8 | | 9. |
| | 10 | | 12 |

Fig.15



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Fig.16

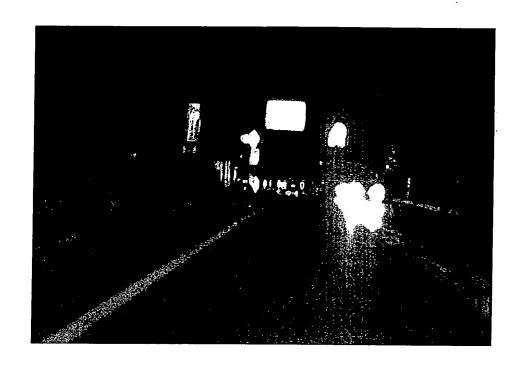
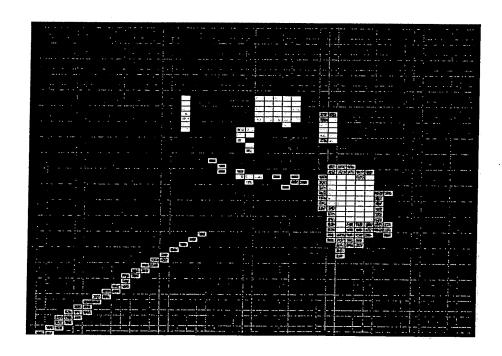


Fig.17



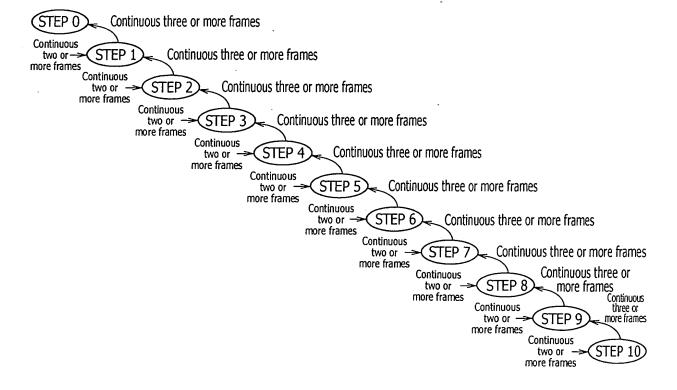
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Fig.18

| | Halati | ion level | Exposure difference | |
|--------|----------|-----------|---------------------|--|
| | Method 1 | Method 2 | from even field | |
| STEP0 | 0~5 | 0~500 | 0dB | |
| STEP1 | 6~10 | 501~1000 | −2dB | |
| STEP2 | 11~15 | 1001~1500 | −4dB | |
| STEP3 | 16~20 | 1501~2000 | −6dB | |
| STEP4 | 21~25 | 2001~2500 | −8dB | |
| STEP5 | 26~30 | 2501~3000 | -10dB | |
| STEP6 | 31~35 | 3001~3500 | −12dB | |
| STEP7 | 36~40 | 3501~4000 | −14dB | |
| STEP8 | 41~45 | 4001~4500 | -16dB | |
| STEP9 | 46~50 | 4501~5000 | -18dB | |
| STEP10 | 51~ | 5001~ | −20dB | |

Fig.19



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Fig.20

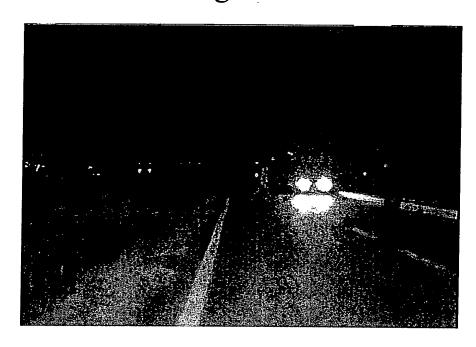


Fig.21



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Fig.22

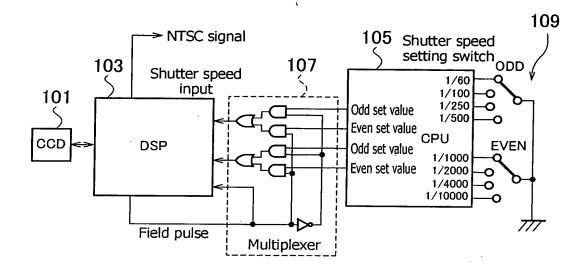
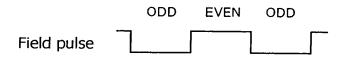


Fig.23



Inventor: Hiroyuki KAWAMURA et al. Customer No.: 000028107

Fig.24



Fig.25

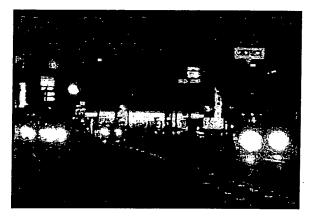


Fig.26



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Fig.27

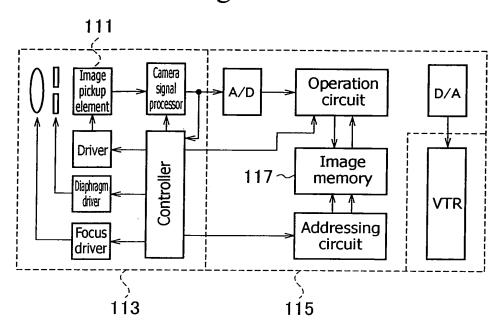


Fig.28

| | | 1 —— | | 2 —— | | 3 | | 1 —— |
|----------------|-------|-------|--------|-------|-------------|-------|-----|------|
| | ODD | EVEN | ODD | EVEN | ODD | EVEN | ODD | • |
| | | - III | | - III | m 15 | m [6 | |] |
| Object | 凹 | [2] | 3 | 4 | 5 ~ | 6 | 7 | |
| (T) | | | m 11/3 | | m 15 | | | |
| Through image | | 2 | | 4 | | 6 | | |
| (M) | 白 | | A | | | m 15 | | |
| Memory image | | | 2 | | 4 | | 6 | |
| Danisia . A | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Decision A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Decision B | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Selection flag | Т | М | Т | М | Т | М | T | |
| (A&B) | M | T | М | 丁 | М | T | М | |
| Output image | | | | | m [5] | m [5] | | |
| - [| 1_1_7 | [2] | 2 | [4] | <u> 4</u> 5 | [6] | [6] | |